

DIABETES MELLITUS "THE INTRUDER"

Pinpointing persistently reporting disease by dint
of accumulating diversified classification of
disease through long-term data analysis.

S. Jeyakumaran

Copyright © 2022

All rights reserved.

The content contained within this book may not be reproduced, duplicated nor transmitted without direct written permission from the author.

Under no circumstances will any blame or legal responsibility be held against the author for any damage, reparation, or monetary loss due to the information contained within this book, either directly or indirectly.

Legal notice:

This book is copyright protected. It is only for personal use. You cannot amend, distribute, sell, Use, quote or paraphrase any part, or the content within this book, without the consent of the author.

Disclaimer notice:

Please note the information contained within this document is for educational and entertainment purposes only. All effort has been executed to present exact, up-to-date, reliable, complete information. No warranties of any kind are declared or implied. Readers acknowledge that the author is not engaged in the rendering of legal, financial, medical, or professional advice. The content within this book has been derived from various sources. Please consult a licensed professional before trying any techniques outlined in this book.

ACKNOWLEDGEMENT

My first obligation is to **Dr. Prithviraj MBBS**, for dispensing me an opportunity to conduct the data analysis.

I also extend my unfeigned hat tip to my (Block medical officer) **Dr. Aravind, MBBS, MD (Community medicine), (AIIMS)**, for being my constant motivator and his valuable counsel helped me a lot in the accomplishment of gathering this realistic data.

I would like to articulate my cordial thanks to all my assisting doctors:

- **Dr. G. Indira, MBBS,**
- **Dr. Parkavi, MBBS,**
- **Dr. Baskar, MBBS,**

Without whose unfailing and generous help this project could not have been undertaken.

Let me also send my humble gratitude to all the "**supporting staff**" of **Thirumarugal -PHC**, who are responsible in one way or the other for all my success.

Then, finally. "**My parents and siblings**", who offered constant sources of support and inspiration in all my ventures.

TABLE OF CONTENTS:

- Title page
- Copyright
- Acknowledgement
- Introduction
- 1. Data analysis
- 2. Persistently reporting disease
 - (1) Diabetes Mellitus (Type-1)
 - (2) Fig: 1.1 and 1.2
 - (3) Hypoglycemia (Low-blood sugar level)
 - (4) Hyperglycemia (High-blood sugar level)
 - Diabetic ketoacidosis
- Hyperosmolar hyperglycemic state (HHS)
 - Diabetes Mellitus (Type-2)
 - 3. Islets of Langerhans
- 4. Supplemental disease caused by Diabetes Mellitus
 - 5. Pie-chart representation
 - 6. Conclusion

INTRODUCTION

Approbation on purchasing, Diabetes Mellitus "THE INTRUDER" and thank you for invigorating this fledgling.

Bear a resemblance to "Chameleons", fair adapt to every single circumstance. (Including modern day medicine), affirmative, the years have been transfigured, classical times medical pattern transposed a lot per contemporary medicine pattern. So, I pronounced to gather contemporary disease reporting patterns, so it is within our power to pretend, (The Intruder) as in course of disease caused the mass percentage. In consonance with which, we can alter our new way of life, in particular "Chameleons" always change following its background.

Assorted Class of disease has been sermonized throughout this data Collection yet, through which is reporting persistently? And how it is in line with Supplemental diseases? And which genesis it as a pillar.? Whether it is age-related (or) external agent? Turn out guys let us perceive (The Intruder). The entire book accommodates lots of fun in addition to Scientific functions (come along guys let us delve into it).

1.DATA ANALYSIS

<u>Disease,</u>	<u>sex</u>	<u>ICD-CODE</u>	<u>Age</u>
1. Itching of skin	M	ME65.	12
2. URI	F	CA07.	35
3. Myalgia	F	FB56.2	76
4. Shoulder pain	M	FB53.Y	56
5. Giddiness	F	MB48.Z	31
6. Injury	M	ND56	15
7. APD	F	DA41.2	56
8. Fever	M	MG26	12
9. OA of knee	F	FA01	67
10. Ganglion	F	FB42.2	22
11. Arthralgia	M	ME82	32
12. Acute gastritis	F	DA42.Z	56
13. Tinea	M	1F28.Z	15

14. Self fall		14
	F	PC30
15. Acute gastroenteritis		(8 month)
	F	1A40.Z
16. Asthma		23
	M	CA23
17. Dog bite		14
	M	OXXA
18. Burn injury		26
	F	NE2Z
19. Palpitation		36
	M	MC81.2
20. Stung by bee		17
	M	NE61
21. Chest pain		56
	F	MD30
22. Diabetes mellitus		72
	M	5A10
23. Acute gastritis		52
	F	DA42.Z
24. Nausea or vomiting		45
	M	MD90
25. Dental caries		23
	F	DA08.0
26. Pruritus		45
	F	EC90
27. Acute urticaria		53
	M	EB00.0
28. Tinea corporis		5
	F	IF28.Y

29. Centipede bite		17
	M	NE61
30. Conjunctivitis		62
	M	9A60
31. Hypertension		52
	M	BA00.0
32. Abdominal pain		24
	F	MD81
33. Essential hypertension		62
	M	BA00.Z
34. Abdominal pain		32
	M	MD81
35. Odema		27
	F	MG29
36. Rat bite		72
	M	PA75
37. Unspecified injury		56
	F	ND56.Z
38. Stung by bee		14
	M	NE61
39. Nausea or vomiting		27
	F	MD90
40. Acute gastritis		52
	M	DA42.Z

41. Self fall		27
	F	PC30
42. Shoulder arthritis		56
	F	FB53.0
43. OA of knee		72
	M	FA01
44. Suture removal		23
	M	QB85
45. Otaglia or effusion of ear		56
	F	AB70
46. Anosmia		13
	F	MB41.0
47. Insomnia		46
	M	7A01
48. Toothache		56
	F	DA0A.Y
49. Coronary artery diseases		62
	M	BA8Y
50. Abscess of skin		13
	F	1B75.3
51. Diabetic foot		53
	M	BD54
52. Abdominal pain		27
	F	MD81
53. Hyperactivity disorder		23
	M	6A05
54. Seizure disorder		56
	M	8A6Z
55. Burn injury		37
	F	NE2Z

56. Giddiness		59
	M	MB48
57. Acne		23
	F	ED80
58. Self fall		63
	F	PC30
59. Myalgia		76
	M	FB56.2
60. Diabetes mellitus		81
	F	5A10
61. URI		24
	M	CA07
62. Dental caries		53
	F	DA08.0
63. Haemolytic anemia		62
	M	3A2Z
64. cold		17
	F	CA00
65. Salivary gland disease		63
	M	DA04
66. Conjunctivitis		59
	F	9A60
67. Giddiness		47
	F	MB48.Z
68. Abdominal pain		29
	M	MD81
69. Diabetes mellitus		76
	F	5A10
70. Self fall		39
	M	PC30

71. Anosmia		17
	M	MB41.0
72. Insomnia		63
	F	7A01
73. Diabetic foot		64
	M	BD54
74. Acute gastritis		56
	F	DA42.Z
75. Seizure disorder		73
	M	8A6Z
76. Myalgia		52
	F	FB56.2
77. Parasitic worms		63
	M	1F90
78. Nausea or vomiting		23
	F	MD90
79. Coronary artery diseases		67
	M	BA8Y
80. cold		12
	F	CA00
81. Seizure disorder		57
	M	8A6Z
82. OA of knee		63
	F	FA01
83. Self fall		54
	M	PC30
84. Headache		24
	F	MB4D
85. Chest pain		64
	M	MD30.0

86. Suture removal		2
	M	QB85
87. Toothache		27
	M	DA0A.Y
88. Hyperactivity disorder		24
	F	6A05
89. Acne		18
	M	ED80
90. URI		23
	F	CA07
91. Dental caries		57
	M	DA08.0
92. Abscess of skin		37
	M	1B75.3
93. Diabetes mellitus		73
	F	5A10
94. Anosmia		15
	M	MB41.0
95. Insomnia		43
	F	7A01
96. Shoulder arthritis		56
	M	FB53.0
97. Fever		16
	M	MG26
98. Acute gastroenteritis		(9 month)
	F	1A40.Z
99. Burn injury		82
	F	NE2Z
100. Tinea		26
	M	1F28.Z

101.	Back pain or spinal pain	72
	F ME84.Z	
102.	Scorpion sting	16
	M NE61	
103.	Centipede bite	8
	M NE61	
104.	Otalgia or effusion of ear	43
	F AB70	
105.	Insect venom	17
	M XM50Y9	
106.	Vertigo	43
	M MB48.0	
107.	Ear pain	18
	F AB70.2	
108.	Haemolytic anemia	63
	F 3A2Z	
109.	Injury of head	53
	M NA00.Z	
110.	Nausea or vomiting	12
	F MD90	
111.	Burn injury	62
	M NE2Z	
112.	Conjunctivitis	67
	M 9A60	
113.	Diabetes mellitus	42
	M 5A10	
114.	OA of knee	73
	F FA01	
115.	Unspecified injury	24
	M ND56.Z	

116.	Fever		28
	F	MG26	
117.	Acne		14
	M	ED80	
118.	Abscess of skin		12
	M	1B75.3	
119.	Hyperactivity disorder		48
	F	6A05	
120.	Myalgia		30
	M	FB56.2	
121.	Open wound of head		39
	M	NA01	
122.	Diabetic foot		75
	F	BD54	
123.	Unspecified injury		8
	M	ND56.Z	
124.	Self fall		24
	M	PC30	
125.	Anosmia		8
	M	MB41.0	
126.	Insomnia		56
	F	7A01	
127.	Giddiness		82
	F	MB48	
128.	Otalgia or effusion of ear		72
	M	AB70	
129.	cold		9
	F	CA00	
130.	Seizure disorder		67
	F	8A6Z	

131.	Acne		19
	M	ED80	
132.	Diabetes mellitus		55
	F	5A10	
133.	Haemolytic anemia		56
	F	3A2Z	
134.	Giddiness		76
	M	MB48.Z	
135.	OA of knee		83
	M	FA01.Z	
136.	Anosmia		16
	F	MB41.0	
137.	Insomnia		29
	F	7A01	
138.	Myalgia		42
	M	FB56.2	
139.	Arthralgia		32
	M	ME82	
140.	Dental caries		63
	F	DA08.12	
141.	Itching of skin		52
	F	ME65.1	
142.	Self fall		23
	M	PC3Z	
143.	Venomous insect bite		13
	M	NE61	
144.	Stung by bee		19
	F	PA78, XE409	
145.	Acute URI		53
	F	CA07.0	

146.	Vertigo		34
	M	MB48.0Z	
147.	Conjunctivitis		52
	M	9A60.Z	
148.	Hyperactivity disorder		42
	F	6A05	
149.	Acute URI multiple sites		63
	M	CA07	
150.	Tinea		52
	F	1F28.Z	
151.	Diabetic foot		73
	M	BD54	
152.	Acute nasopharyngitis		11
	M	CA00	
153.	Abdominal pain		57
	F	MD81.4	
154.	Salivary gland disease		68
	M	DA04.Z	
155.	Periarthritis of shoulder		59
	F	FB53.0	
156.	Back pain or spinal pain		56
	M	ME84.Z	
157.	Fever (unknown origin)		13
	M	MG26	
158.	Otalgia or effusion of ear		29
	F	AB70.2	
159.	Toothache		67
	M	DA0A.Y	
160.	Acute URI		52
	M	CA07.0	

161.	Suture removal		7
	M	QB85	
162.	Centipede bite		15
	F	NE61	
163.	Pelvic pain		28
	F	GA34.2Z	
164.	Scorpion sting		57
	M	NE61	
165.	Epilepsy or seizure		43
	M	8A6Z	
166.	Asthma		23
	F	CA23	
167.	Rat bite		18
	M	PA78, XE8X3	
168.	Essential hypertension		58
	F	BA00.Z	
169.	Pruritus		45
	F	EC90.Z	
170.	Dog bite		14
	M	OXXA	
171.	Palpitation		35
	M	MC81.2	
172.	Acute urticaria		52
	F	EB00.0	
173.	Snake bite		28
	M	PA78, XE9H6	
174.	Tinea corporis		5
	F	1F28.Y	
175.	Depressive disorder		56
	M	6A7Z	

176.	Vertigo		53
	M	MB48.0Z	
177.	UTI		72
	M	GC08.Z	
178.	Removal of sutures		15
	F	QB85	
179.	OA of knee		83
	F	FA01.0	
180.	Self fall		63
	F	PC30	
181.	Acute urticaria		24
	M	EB00.0	
182.	Abscess of skin		18
	F	1B75.3	
183.	Tendinitis		56
	M	FB55.Z	
184.	Head injury (blood vessel)		33
	M	NA05.Z	
185.	Ganglion		14
	F	FB42.2	
186.	Acid peptic disease		46
	M	DA41.2	
187.	Acid hypersecretion		58
	F	DA41.2	
188.	Fever (unknown origin)		16
	F	MG26	
189.	Back pain or spinal pain		59
	M	ME84.Z	
190.	Headache		27
	M	MB4D	

191.	Chest pain		49
	M	MD30.Z	
192.	Scorpion sting		9
	M	NE61	
193.	Dog bite		16
	F	OXXA	
194.	Myalgia		33
	M	FB56.2	
195.	Anosmia		14
	M	MB41.0	
196.	Insomnia(chronic)		56
	M	7A00	
197.	Venomous snake bite		63
	F	PA78, XE9H6	
198.	Diabetic foot ulcer		68
	M	BD54	
199.	Giddiness		73
	F	MB48.Z	
200.	Tinea (unspecified)		45
	M	1F28.Z	
201.	Haemolytic anemia		68
	F	3A4Z	
202.	Stung by bee		8
	M	PA78, XE409	
203.	Myalgia		30
	M	FB56.2	
204.	Diabetic foot ulcer		50
	M	BD54	
205.	Ganglion		14
	F	FB56.2	

206.	Tinea(unspecified)	15
	M 1F28.Z	
207.	Arthralgia	32
	M ME82	
208.	Palpitation	35
	M MC81.2	
209.	Rat bite	76
	F PA78, XE8X3	
210.	Abdominal pain	42
	F MD81	
211.	Vertigo(unspecified)	43
	M MB48.0Z	
212.	Otalgia or effusion of ear	18
	M AB70.2	
213.	Conjunctivitis	60
	M 9A60.Z	
214.	Back pain or spinal pain	54
	M ME84.Z	
215.	Fever (unknown origin)	42
	F MG26	
216.	Dental caries	22
	M DA08.0	
217.	Acute URI multiple sites	44
	M CA07.0	
218.	Centipede bite	63
	M NE61	
219.	Abscess of skin	44
	M 1B75.3	
220.	Pruritus	45
	F EC90.Z	

221.	Acute nasopharyngitis	10
	M CA00	
222.	Giddiness	65
	M MB48.Z	
223.	Scorpion sting	19
	F NE61	
224.	Vomiting	31
	F MD90.1	
225.	Headache	14
	F MB4D	
226.	Chest pain	50
	F MD30.Z	
227.	Acid hypersecretion	27
	F DA41.2	
228.	Venomous strike	8
	M PA78, XE9H6	
229.	Haemolytic anemia	35
	F 3A4Z	
230.	URI	45
	M CA07.0	
231.	Acute gastritis	45
	F DA42.Z	
232.	Burn injury	38
	M NE2Z	
233.	Vertigo	43
	M MB48.0Z	
234.	Otalgia or effusion of ear	18
	M AB70.2	
235.	Conjunctivitis	62
	M 9A60.Z	

236.	Diabetic foot ulcer	32
	M BD54	
237.	Acute urticaria	60
	F EB00.0	
238.	Anosmia	35
	M MB41.0	
239.	Insomnia(chronic)	33
	F 7A00	
240.	Tinea corporis	5
	F 1F28.Y	
241.	Stung by bee	10
	M PA78, XE409	
242.	Ganglion	14
	F FB42.2	
243.	Periarthritis of shoulder	65
	F FB53.0	
244.	OA of knee	67
	F FA01.Z	
245.	Diabetes mellitus	56
	F 5A10	
246.	Dog bite	45
	F OXXA	
247.	Tendinitis	36
	M FB55.Z	
248.	Self fall	20
	M PC3Z	
249.	Giddiness (unspecified)	35
	M MB48.Z	
250.	Fever	20
	M MG26	

251.	URI		52
	M	GC08.Z	
252.	Essential hypertension		45
	F	BA00.Z	
253.	Myalgia		76
	F	FB56.2	
254.	Haemolytic anemia		47
	F	3A4Z	
255.	Chest pain		37
	M	MD30.Z	
256.	Dental caries		45
	F	DA08.0	
257.	Suture removal		12
	M	QB85	
258.	Seizure disorder		60
	F	8A6Z	
259.	Dental caries		72
	M	DA08.0	
260.	Hyperactivity disorder		35
	M	6A05.Z	
261.	Acute gastroenteritis		23
	F	1A40.Z	
262.	Otalgia or effusion of ear		22
	M	AB70	
263.	Injury(unspecified)		53
	M	ND56.Z	
264.	Suture removal		6
	F	QB85	
265.	Chest pain		65
	M	MD30.Z	

266.	Giddiness		32
	F	MB48.Z	
267.	Chest pain		24
	F	MD30.Z	
268.	Abdominal pain		68
	F	MD81.4	
269.	URI		58
	F	CA07.0	
270.	Tinea corporis		70
	M	IF28.Y	
271.	Myalgia		34
	F	FB56.2	
272.	Giddiness		65
	M	MB48.Z	
273.	Haemolytic anemia		76
	F	3A4Z	
274.	Snake bite		22
	M	PA78, XE9H6	
275.	Burn injury		27
	F	NE2Z	
276.	Dog bite		8
	M	OXXA	
277.	Suture removal		10
	M	QB85	
278.	Acid hypersecretion		29
	F	DA41.2	
279.	Ganglion		22
	F	FB42.2	
280.	Diabetes mellitus		54
	F	5A14	

281.	Essential hypertension	29
	F DA41.2	
282.	Stung by bee	27
	M PA78, XE11M	
283.	Vertigo (unspecified)	53
	M MB48.0Z	
284.	Otalgia or effusion of ear	15
	F AB70	
285.	Abscess of skin	8
	M 1B75.3	
286.	Headache	57
	F MB4D	
287.	Vomiting	24
	M MD90.1	
288.	Conjunctivitis	63
	M 9A60.Z	
289.	Ganglion	14
	F FB42.2	
290.	Stung by bee	15
	M PA78, XE409	
291.	Acute nasopharyngitis	22
	M CA00	
292.	Tendinitis	37
	M FB55.Z	
293.	Fever (unknown origin)	8
	M MG26	
294.	Diabetes mellitus	56
	F 5A14	
295.	Insomnia (chronic)	33
	F 7A00	

296.	Anosmia		43
	M	MB41.0	
297.	Dog bite		12
	F	OXXA	
298.	URI (unspecified)		35
	M	CA07.0	
299.	Palpitation		36
	M	MC81.2	
300.	Tinea corporis		7
	F	1F28.Y	
301.	Essential hypertension		55
	M	BA00.Z	
302.	Burn injury		39
	F	NE2Z	
303.	Periarthritis of shoulder		42
	M	FB53.0	
304.	Chest pain		65
	F	MD30.Z	
305.	Giddiness(unspecified)		56
	M	MB48.Z	
306.	URI (unspecified)		55
	F	CA07.0	
307.	Injury (unspecified)		70
	M	ND56.Z	
308.	Headache		72
	M	MB4D	
309.	Abdominal pain		68
	F	MD81.4	
310.	Diabetes mellitus		63
	F	5A14	

311.	Myalgia		34
	F	FB56.2	
312.	Injury (unspecified)		53
	M	ND56.Z	
313.	Rat bite		12
	M	PA75, XE8X3	
314.	Suture removal		6
	F	QB85	
315.	Tinea corporis		70
	M	1F28.Y	
316.	Diabetes mellitus		69
	F	5A14	
317.	Periarthritis of shoulder		65
	F	FB53.0	
318.	OA of knee		53
	M	FA01.Z	
319.	Self fall		86
	F	PC3Z	
320.	Otalgia or effusion of ear		66
	M	AB70	
321.	Acute gastritis		31
	F	DA42.Z	
322.	Vomiting		35
	F	MD90.1	
323.	Depression		50
	M	6A7Z	
324.	Snake bite		8
	M	PA78, XE9H6	
325.	URI (unspecified)		35
	F	CA07.0	

326.	Injury(unspecified)	25
	M ND56.Z	
327.	Dog bite	55
	F OXXA	
328.	Peptic ulcer	45
	M DA61	
329.	Pruritus(unspecified)	28
	F EC90.Z	
330.	Itching of skin	65
	F ME65.1	
331.	Back pain or spinal pain	54
	M ME84.Z	
332.	Chest pain	50
	F MD30.Z	
333.	Fever (unknown origin)	12
	M MG26	
334.	Dental caries	25
	F DA08.0	
335.	Peptic ulcer	27
	F DA61	
336.	Abscess of skin	2
	F 1B75.3	
337.	Seizure disorder	60
	F 8A6Z	
338.	Diabetic foot ulcer	32
	M BD54	
339.	Surgical dressing	20
	M QB85	
340.	Burn injury	38
	M NE2Z	

341.	Toothache		65
	M	DA0A.Y	
342.	Drowning		62
	M	NF08.1	
343.	Arthritis		60
	M	FA2Z	
344.	Giddiness		65
	M	MB48.Z	
345.	Acute gastritis		56
	F	DA42.Z	
346.	Conjunctivitis		60
	M	9A60.Z	
347.	Rat bite		76
	F	PA75, XE8X3	
348.	Itching of skin		2
	M	ME65.1	
349.	Myalgia		35
	F	FB56.2	
350.	Shoulder pain		45
	M	FB53.Y	
351.	Injury(unspecified)		6
	F	ND56.Z	
352.	Palpitation		35
	M	MC81.2	
353.	Urticaria		45
	F	EB05	
354.	Centipede bite		63
	M	NE61	
355.	Tendinitis		43
	M	FB55.Z	

356.	Anosmia		33
	M	MB41.0	
357.	Insomnia(chronic)		16
	F	7A00	
358.	Stung by bee		45
	M	PA78, XE4D9	
359.	Ganglion		26
	F	FB42.2	
360.	Vertigo (unspecified)		44
	M	MB48.0	
361.	Essential hypertension		63
	M	BA00.Z	
362.	Acute nasopharyngitis		23
	M	CA00	
363.	Hyperactivity disorder		36
	M	6A05.Z	
364.	OA of knee		37
	M	FA01.Z	
365.	Periarthritis of shoulder		65
	F	FA01.Z	
366.	Arthralgia		32
	M	ME82	
367.	Self fall		76
	M	PC3Z	
368.	Peptic ulcer		56
	F	DA61	
369.	Tinea		15
	M	1F28.Z	
370.	Pruritus(unspecified)		8
	M	EC90.Z	

371.	Centipede bite		63
	M	NE61	
372.	Palpitation		35
	M	MC81.2	
373.	Otalgia or effusion of ear		67
	F	AB70	
374.	Injury(unspecified)		43
	M	ND56.Z	
375.	URI (unspecified)		58
	M	CA07.0	
376.	Stung by bee		45
	M	PA78	
377.	Giddiness(unspecified)		23
	M	MB48.Z	
378.	Burn injury		38
	M	NE2Z	
379.	Pruritus(unspecified)		9
	F	EC90.Z	
380.	Acute gastritis		32
	M	DA42.Z	
381.	Itching of skin		66
	M	ME65.1	
382.	Myalgia		28
	F	FB56.2	
383.	Surgical dressing		8
	M	QB85	
384.	Injury(unspecified)		45
	M	ND56.Z	
385.	Dog bite		58
	M	OXXA	

386.	Chest pain		58
	F	MD30.Z	
387.	Depression		46
	M	6A7Z	
388.	Diabetic foot ulcer		45
	M	BD54	
389.	Drowning		62
	M	NF08.1	
390.	Arthritis		60
	M	FA2Z	
391.	Toothache		65
	M	DA0A.Y	
392.	Abscess of skin		44
	M	1B75.3	
393.	Diabetes mellitus		67
	M	5A14	
394.	Abdominal pain		68
	F	MD81.4	
395.	URI (unspecified)		65
	F	CA07.0	
396.	Otalgia or effusion of ear		66
	M	AB70	
397.	Snake bite		12
	F	PA78, XE9H6	
398.	Dental caries		31
	F	DA08.0	
399.	Injury(unspecified)		12
	M	MC81.2	
400.	Self fall		66
	F	PC3Z	

401.	Acute gastritis		32
	F	DA42.Z	
402.	Conjunctivitis		61
	M	9A60.Z	
403.	Palpitation		41
	M	MC81.2	
404.	Urticaria		56
	F	EB05	
405.	Peptic ulcer		43
	M	DA61	
406.	Giddiness		56
	M	MB48.Z	
407.	Centipede bite		13
	M	NE61	
408.	Tendinitis		48
	F	FB55.Z	
409.	Insomnia(chronic)		17
	F	7A00	
410.	Slipped disc		52
	M	FB1Y	
411.	Pus in stool		43
	M	ME0Y	
412.	Myalgia		33
	F	FB56.2	
413.	Coagulation deficiency		52
	F	3B14.Z	
414.	Self fall		65
	M	PC3Z	
415.	Muscle strain		33
	F	FB32.5	

416.	Injury in tendon	55
	M ND56.6	
417.	Traumatic tear of ligament	35
	M ND56.3	
418.	Diabetes mellitus	60
	F 5A14	
419.	Seizure disorder	64
	M 8A6Z	
420.	Vertigo (unspecified)	54
	M MB48.0	
421.	URI (unspecified)	41
	F CA07.0	
422.	Essential hypertension	38
	F BA00.Z	
423.	Giddiness (unspecified)	26
	F MB48.Z	
424.	Myalgia	37
	F FB56.2	
425.	Diabetes mellitus	65
	F 5A14	
426.	Injury (unspecified)	52
	M ND56.Z	
427.	URI (unspecified)	17
	M CA07.0	
428.	Giddiness	55
	F MB48.Z	
429.	Urticaria	26
	M EB05	
430.	Self fall	65
	M PC3Z	

431.	Dressing		3
	F	QB85	
432.	Chest pain		69
	M	MD30.Z	
433.	Seizure disorder		64
	M	8A6Z	
434.	Muscle strain		33
	F	FB32.5	
435.	Essential hypertension		38
	F	BA00.Z	
436.	Abdominal pain		68
	F	MD81.4	
437.	Headache		70
	M	MB4D	
438.	Tinea		35
	M	1F28.Z	
439.	Suture removal		20
	M	QB85	
440.	Otalgia or effusion of ear		66
	M	AB70	
441.	Periarthritis of shoulder		52
	F	FB53.0	
442.	Snake bite		32
	M	PA78, XE9H6	
443.	Depression		50
	M	6A7Z	
444.	Vomiting		35
	F	MD90.1	
445.	Acute gastritis		31
	F	DA42.Z	

446.	Vertigo (unspecified)	43
	M MB48.0Z	
447.	URI (unspecified)	54
	F CA07.0	
448.	Centipede bite	42
	F NE61	
449.	Scorpion sting	14
	F NE61	
450.	Dental caries	25
	F DA08.0	
451.	Back pain or spinal pain	54
	M ME84.2	
452.	Chest pain	50
	F MD30.Z	
453.	Fever	12
	M MG26	
454.	OA of knee	56
	M FA01.Z	
455.	Head injury	19
	M NA0Z	
456.	Slipped disc	52
	M BD54	
457.	Burn injury	38
	M NE2Z	
458.	Diabetic foot ulcer	58
	M BD54	
459.	Laceration Injury	13
	M KA42.Y	
460.	Anemia	46
	F 3A9Z	

461.	OA of knee		65
	F	FA01.Z	
462.	Otomycosis of ear		68
	F	AA03	
463.	Dysentery		63
	M	1A40.Z	
464.	Self injury		35
	M	PD3Z	
465.	Burns		38
	M	NE2Z	
466.	URI (unspecified)		55
	M	CA07.0	
467.	Multiple insect bite		12
	M	ND30	
468.	Peptic ulcer		53
	F	DA22.1	
469.	Anaemia		40
	F	3A9Z	
470.	Myalgia		65
	F	FB56.2	
471.	Injury (unspecified)		19
	M	ND56.Z	
472.	URI (unspecified)		56
	M	CA07.0	
473.	Dog bite		9
	M	OXXA	
474.	Gastritis		74
	M	DA42.Z	
475.	Tuberculosis		56
	M	1B1Z	

476.	Diabetes mellitus	62
	M MD81.4	
477.	Abdominal pain	65
	M MD81.4	
478.	Tooth caries	42
	F EB05	
479.	Otomycosis of ear	68
	F AA03	
480.	Urticaria	60
	F EB05	
481.	Self fall	76
	F PC3Z	
482.	Diabetes mellitus	55
	F 5A14	
483.	Shoulder arthritis	65
	F FB53.0	
484.	Vertigo (unspecified)	44
	M MB48.0Z	
485.	Suture removal	20
	M QB85	
486.	Essential hypertension	31
	F BA00.Z	
487.	Acute gastritis	75
	M DA42.Z	
488.	Seizure disorder	36
	F 8A6Z	
489.	Headache	15
	F MB4D	
490.	Giddiness (unspecified)	45
	F MB48.Z	

491.	Diabetes mellitus	65
	M 5A14	
492.	Myalgia	55
	F FB56.2	
493.	Anaemia	45
	F 3A9Z	
494.	Centipede bite	15
	M NE61	
495.	Stung by bee	17
	F PA78, XE4D9	
496.	Shoulder arthritis	65
	F FB56.2	
497.	OA of knee	61
	M FA01.Z	
498.	URI (unspecified)	44
	M CA07.0	
499.	Tendinitis	32
	M FB55.Z	
500.	Urticaria	60
	F EB05	
501.	Rat bite	15
	M PA75, XE8X3	
502.	Vertigo (unspecified)	44
	M MB48.Z	
503.	Hypertension	31
	F BA00.Z	
504.	Seizure disorder	43
	F 8A6Z	
505.	Acute gastritis	75
	M DA42.Z	

506.	Burn injury		53
	M	NE2Z	
507.	URI (unspecified)		26
	M	CA07.0	
508.	Insect bite		46
	M	ND30	
509.	Back pain or spinal pain		46
	F	ME84.2	
510.	Chest pain		71
	M	MD30.Z	
511.	Tooth caries		45
	M	DA08.0	
512.	Anosmia		34
	M	MB41.0	
513.	Insomnia		42
	F	7A01	
514.	Diabetes mellitus		62
	M	5A14	
515.	Pruritus		8
	M	EC90.Z	
516.	pustule		53
	M	ME66.Y	
517.	URI (unspecified)		67
	M	CA07.0	
518.	Stung by bee		13
	M	PA78, XE4D9	
519.	Tooth caries		38
	F	DA08.0	
520.	Dressing		13
	F	QB85	

521.	Muscle strain	23
	M FB32.5	
522.	Rupture of perineal muscle	45
	M JB09.1	
523.	Centipede bite	17
	M NE61	
524.	Scorpion sting	12
	F NE61	
525.	Shoulder arthritis	71
	F FB53.0	
526.	OA of knee	57
	F FA01.Z	
527.	Otalgia or effusion of ear	53
	M AB70	
528.	URI (unspecified)	44
	F CA07.0	
529.	Myalgia	37
	F FB56.2	
530.	Giddiness (unspecified)	45
	F MB48.Z	
531.	Tinea	57
	M 1F28.Z	
532.	Anaemia	48
	F 3A9Z	
533.	Pus	37
	F ME66.Y	
534.	Injury (unspecified)	19
	M ND56	
535.	Diabetes mellitus	62
	M 5A14	

536.	Insect bite		46
	M	EK50.02	
537.	Tooth caries		38
	F	DA08.0	
538.	Laceration Injury		13
	M	NB51.Z	
539.	Chest pain		67
	M	MD30.Z	
540.	Burns		38
	M	NE2Z	
541.	Self injury		35
	M	PD3Z	
542.	Dog bite		9
	F	OXXA	
543.	Gastritis		74
	M	DA42.Z	
544.	Abdominal pain		65
	M	MD81.4	
545.	Otomycosis of ear		68
	F	AA03	
546.	Dysentery		32
	F	1A40.Z	
547.	Slipped disc		52
	M	FB1Y	
548.	Peptic ulcer		52
	M	DA61	
549.	Essential hypertension		51
	F	BA00.Z	
550.	Otalgia or effusion of ear		21
	F	AB70	

551.	Seizure disorder		64
	M	8A6Z	
552.	Dressing		1
	M	QB85	
553.	Acute gastritis		23
	M	DA42.Z	
554.	Urticaria		52
	F	EB05	
555.	Muscle strain		33
	F	FB32.5	
556.	Diabetes mellitus		67
	F	5A10	
557.	Chest pain		69
	M	MD30.Z	
558.	Musculoskeletal chest pain		61
	M	ME81.Z	
559.	Acute gastroenteritis		55
	F	1A40.Z	
560.	Headache		52
	M	MB4D	
561.	Shoulder arthritis		65
	F	FB53.0	
562.	OA of knee		67
	M	FA01.Z	
563.	Suture removal		20
	M	QB85	
564.	Diabetes mellitus		69
	F	5A14	
565.	Elevated blood pressure		62
	M	MC80.0Z	

566.	Acute gastritis		75
	M	1A40.Z	
567.	URI (unspecified)		50
	F	CA07.0	
568.	Myalgia		43
	M	FB56.2	
569.	Snake bite		8
	F	PA75, XE9H6	
570.	vomiting		35
	F	MD90	
571.	Depression		50
	M	6A7Z	
572.	Vertigo (unspecified)		43
	M	MB48.0Z	
573.	Iron deficiency		53
	M	5B5K.0	
574.	Centipede bite		42
	F	NE61	
575.	Scorpion sting		14
	F	NE61	
576.	Self fall		26
	F	PC63	
577.	Back pain or spinal pain		54
	M	ME84.2	
578.	Rat bite		15
	F	PA75, XE8X3	
579.	Chest pain		50
	F	MD30.Z	
580.	Head injury		19
	M	NA0Z	

581.	Giddiness (unspecified)	60
	M MB48.Z	
582.	Fever	42
	F MG26	
583.	Urethritis	8-month
	F GC02.Y	
584.	Peptic ulcer	56
	F DA61	
585.	Abscess	2
	F 1B75.3	
586.	Abnormal glucose	52
	M 5A40.Z	
587.	Tooth caries	65
	M DA0A.Y	
588.	Diabetes mellitus	67
	M 5A10	
589.	Giddiness(unspecified)	45
	F MB48.Z	
590.	Rat bite	76
	F PA75, XE8X3	
591.	Conjunctivitis	60
	M 9A60.Z	
592.	Acute gastritis	23
	M DA42.Z	
593.	Fever	5
	F MG26	
594.	Acute nasopharyngitis	13
	F CA00	
595.	Abdominal pain	42
	F MD81.4	

596.	Acute gastroenteritis		9-month
	F	1A40.Z	
597.	URI (unspecified)		45
	M	CA07.0	
598.	Itching		15
	M	ME65.1	
599.	Shoulder lesion		45
	M	FB53.Y	
600.	Arthralgia		71
	M	ME82	
601.	Dental carries		50
	F	DA08.0	
602.	Giddiness (unspecified)		59
	M	MB48.Z	
603.	Myalgia		28
	F	FB56.2	
604.	OA of knee		60
	M	FA01.Z	
605.	Acid hypersecretion		40
	F	DA41.2	
606.	Giddiness (unspecified)		59
	M	MB48.Z	
607.	Pruritus		9-month
	F	EC90.Z	
608.	Iron deficiency		60
	F	5B5K.0	
609.	Haemoglobinaemia		52
	M	3A2Z	
610.	Injury (unspecified)		45
	M	ND56.Z	

611.	Vertigo (unspecified)	32
	M MB48.0Z	
612.	Arthralgia	32
	M MB48.0Z	
613.	Dental carries	50
	F DA08.0	
614.	Myalgia	28
	F FB56.6	
615.	Ganglion	14
	F FB42.2	
616.	OA of knee	60
	M FA01.Z	
617.	Itching	36
	M ME65.1	
618.	Centipede bite	15
	M NE61	
619.	Shoulder lesion	56
	F FB53.Y	
620.	Pain in limb	31
	F FB56.4	
621.	Tinea corporis	67
	M 1F28.Z	
622.	Fatigue	43
	F MG22	
623.	Acute gastritis	33
	M 1A40.Z	
624.	URI (unspecified)	24
	M CA07.0	
625.	Obesity	42
	M 5B81.Z	

626.	Chest pain		56
	M	MD30.Z	
627.	Musculoskeletal chest pain		51
	M	ME81.Z	
628.	Arthritis		62
	M	FA2Z	
629.	OA of knee		63
	F	FA0Z	
630.	Knee swelling		56
	M	FA36.Z, XA8R11	
631.	Fatigue		43
	F	MG22	
632.	Myalgia		73
	M	FB56.2	
633.	Insect bite		23
	M	EK50.02	
634.	Schizophrenia		53
	M	6A20.Z	
635.	Pruritus		32
	M	EC90.Z	
636.	Tuberculosis		20
	M	1B1Z	
637.	Injury (unspecified)		38
	M	ND56.Z	
638.	Stung by bee		50
	F	PA78, XE4D9	
639.	Hypertension		45
	F	MC80.0Z	
640.	Tinea corporis		35
	F	1F28.Z	

641.	Acute gastroenteritis	33
	M 1A40.Z	
642.	Giddiness (unspecified)	24
	M MB48.Z	
643.	Abdominal pain	16
	M MD81.4	
644.	Joint swelling	45
	M FA36.Z, XA8RL1	
645.	Otalgia or effusion of ear	33
	F AB70	
646.	Stung by bee	50
	F PA78, XE4D9	
647.	Renal colic	25
	F MF56	
648.	Knee swelling	36
	M FA36.Z, XA8RL1	
649.	Myalgia	39
	F FB56.6	
650.	Renal colic	25
	F MF56	
651.	URI (unspecified)	30
	M CA07.0	
652.	Tinea corporis	35
	F 1F28.Z	
653.	Fatigue	43
	F MG22	
654.	Arthritis	62
	M FA2Z	
655.	Chest pain	56
	M MD30.Z	

656.	Acute gastritis		33
	M	DA42.Z	
657.	Giddiness (unspecified)		60
	F	MB48.Z	
658.	Abdominal pain		16
	M	MD81.4	
659.	Dog bite		12
	M	OXXA	
660.	Injury(unspecified)		53
	M	ND56.Z	
661.	Schizophrenia		55
	F	6A20.Z	
662.	Knee swelling		43
	M	FA36.Z, XA8RL1	
663.	Headache		55
	F	MB4D	
664.	Stung by bee		55
	M	PA78, XE4D9	
665.	Scabies		15
	M	1G04	
666.	Fatigue		17
	F	MG22	
667.	Insect bite		20
	M	EK50.02	
668.	Diabetes mellitus		70
	F	5A14	
669.	Centipede bite		17
	F	NE61	
670.	Seizure disorder		68
	M	8A6Z	

671.	Essential hypertension	56
	F BA00.Z	
672.	Dog bite	62
	M OXXA	
673.	Urticaria	56
	M BA00.Z	
674.	Tinea corporis	33
	M 1F28.Y	
675.	Seizure disorder	68
	M 8A6Z	
676.	Dental carries	31
	F DA08.0	
677.	Dog bite	30
	F OXXA	
678.	Myalgia	15
	M FB56.2	
679.	Anaemia	36
	M 3A9Z	
680.	URI (unspecified)	36
	M CA07.0	
681.	Giddiness (unspecified)	60
	F MB48.Z	
682.	Acute gastroenteritis	33
	M 1A40.Z	
683.	Giddiness (unspecified)	60
	F MB48.Z	
684.	Knee swelling	56
	M MD30.Z	
685.	Fatigue	43
	F MG22	

686.	Chest pain		56
	M	MD30.Z	
687.	Otalgia or effusion of ear		59
	F	AB70	
688.	Dog bite		15
	M	OXXA	
689.	Abdominal pain		16
	M	MD81.4	
690.	Seizure disorder		68
	M	8A6Z	
691.	Urticaria		60
	M	EB05	
692.	Myalgia		85
	F	FB56.2	
693.	URI (unspecified)		4
	M	CA07.0	
694.	Scabies		17
	M	1G04	
695.	Injury(unspecified)		23
	F	ND56.Z	
696.	Renal colic		26
	M	MF56	
697.	Arthritis		63
	F	FA2Z	
698.	Chest pain		23
	M	MD30.Z	
699.	URI (unspecified)		57
	M	CA07.0	
700.	Seizure disorder		78
	M	8A6Z	

2. PERSISTENTLY REPORTING DISEASE

Following data collected, the most persistently reported disease was:

1. Diabetes Mellitus (The multifactorial disease).

Diabetes Mellitus (Type-1):

- The thing that generates the level of glucose (sugar) in your blood turns out to be extreme.
- It happens when your body is incapable of manufacturing a sufficient percentage of hormone called insulin, which sways blood glucose.

Symptoms of (Type-1) Diabetes:

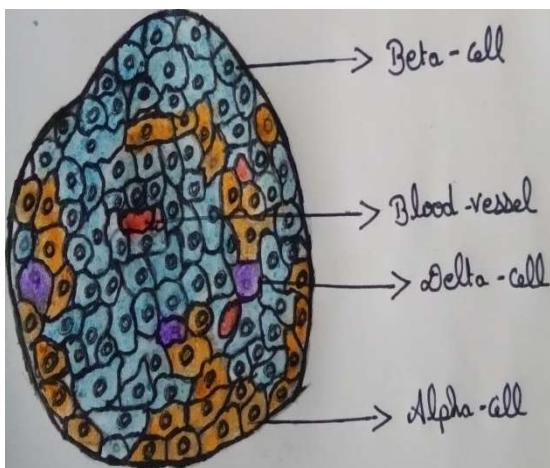
1. Feeling exceedingly dehydrated.
2. Urinating more than usual (distinctly at night).
3. Feeling exceedingly fatigued.
4. Depriving weight without demanding.
5. Thrush that keeps nearing back.
6. Blurred vision
7. Cuts and grazes that are not curing.

8. Fruity-smelling breath.

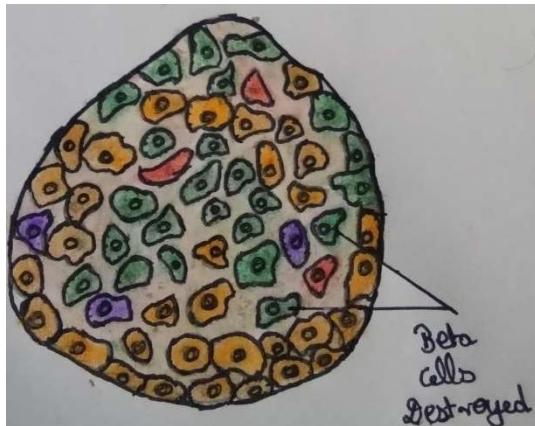
What genesis fruity smelling breath?

If the body pursues to work without insulin, acid called ketone will accumulate. This genesis your breath to smell like pear drops, in addition its usher to stomach pain, if ketones pursue to accumulate in the blood, it generates a prospective fatal condition called, Diabetes ketoacidosis (KDA).

Fig. 1.1:



: Fig.1.2



Hypoglycemia (Low-blood-sugar level)

- The Level of glucose in your body was extremely low in mass.

Cause:

- The sequel of taking furthermore insulin (Intravenously)
- Leaping or delaying meal
- Not eating an adequate amount of carbohydrate foods in your last meal.
- Consuming alcohol.

A low blood glucose level without diabetes:

- This situation occurs to a lesser extent in people.
- **Plausible causes:**
 1. Other medical conditions such as problems with your hormone levels like Pancreas, liver, suprarenal gland.
 2. Malnutrition
 3. Your body liberate furthermore insulin after eating it is called (Reactive hypoglycemia (or) postprandial hypoglycemia)

Hyperglycemia (High blood sugar level)

- The level of glucose in the body was extremely high in mass.
- It can strike both people with (Type-1 Diabetes as well as Type-2 diabetes).

Some of the life-threatening complications of hyperglycemia include:

1. Diabetic ketoacidosis (DKA).
2. Hyperosmolar hyperglycemic state (HHS).

Symptoms of Hyperglycemia:

1. Escalating thirst and dry mouth.

2. Tiredness.
3. Necessitate urinating recurrently.
4. Blurred vision.
5. Weight loss.
6. Tummy pain (or) Abdominal pain.

DIABETIC KETOACIDOSIS

What is meant by (DKA)?

- (DKA) acquire if you have high-blood sugar (Hyperglycemia) and elevated level of ketones in your blood (or) urine.
- It is a consequential problem that can cause people with diabetes if their body starts to run out of insulin.

How is it caused?

(DKA) progresses when your body does not have adequate insulin to allow blood sugar into your cells for use as energy. Alternatively, your liver breaks down "fat" for "fuel", a process that produces acid called ketones, when excessive ketones are produced overly fast, they can build-up to dangerous levels in your body.

Symptoms of (DKA):

- Tummy pain (or) Abdominal pain.
- Breath that smells fruity (like pear drops).
- Feeling very exhausted (or) drowsy.
- Necessitate urinating more than usual (ketones combined in it).

HYPEROSMOLAR HYPERGLYCEMIC STATE (HHS):

- It happens in people with (Type-2 diabetes) who experience remarkably high blood glucose levels. It can progress over a course of weeks through a combination of illness (infection) and dehydration.
- (HHS), happen when the blood-sugar level of a person with diabetes becomes extreme. (Hyperglycemia) for a long time. The extra sugar is passed into the urine, which causes the person to urinate often, and as result it causes you to lose lots of fluid, which can lead to severe dehydration (extreme thirst).

Symptoms:

- High blood-sugar level.
- Drowsiness (or) hallucination.
- Dry mouth and extreme thirst.

- Recurrent urination.
- Blurred vision (or) loss of vision.

DIABETES MELLITUS (TYPE-2)

- Actually (Type-2 diabetes) is a chronic disease. It is permeated by extreme levels of sugar in the blood. It is genesis now that your body's cells combat the usual effect of insulin, which is to steer glucose in the blood into the interior of the cells. The condition is called combat-resistance. In consequence, glucose begins to accumulate in the blood. In individuals with insulin resistance, the Pancreas counters by manufacturing excessive insulin to perpetuate a normal blood sugar. Gradually, the body's insulin resistance gets inferior. In reaction the Pancreas manufactures further and further insulin. Eventually, the Pancreas gets worn out. It is incapable of keeping up with demand for further and further insulin. It protrudes as the glucose level increases.

Symptoms:

- Extreme perspiration.
- Anxiety.
- Dizziness (or) Giddiness.

- Seizures and loss of consciousness.

3. ISLET OF LANGERHANS

- It was an Islands of endocrine Cells disintegrated all round the Pancreas. Human Islets incorporated 30% (Glucagon) manufacturing (Alpha-cells), 60% of roughly (Insulin) manufacturing (beta-cells), in company 10% of (delta-cells) producing (Somatostatin), (Gamma or PP cells (Pancreatic polypeptide producing). Of entire islet cells, the (beta-cell) is the most habitual because it manufactures (insulin), the substantial hormone in directive of carbohydrate, fat, and protein metabolism. Insulin is pivotal because it aids the uptake and metabolism of glucose by the cell body; it fends off the release of glucose by the liver. The liberation of (Insulin) from the (beta cells) can be set off by growth hormone (Somatotropin) or by (Glucagon), the most dominant stimulator is glucose. When the blood glucose level enlarges as it does after a meal-(Insulin) is emancipated to counter it. The impotence of the islet cells to manufacture insulin or the collapse of producing adequate amounts of insulin to control blood glucose level are the source of diabetes mellitus.

- **Which factor affects the beta cells to produce insulin?**
- It is (multi-factorial) which can desecrate or destruct beta cell:

Metabolic factors:

1. Lipotoxicity.
2. Glucotoxicity.
3. Hyperglycemia.

Pharmacological factors:

1. Antidepressants.
2. Antimicrobial medication.

Factor related to impaired insulin:

1. MODY type diabetes (Maturity onset diabetes of the young).

Environment toxic factors:

1. Polychlorinated and polybrominated hydrocarbons.

Disorders of exocrine Pancreas:

1. Tumour infiltration
2. Chronic pancreatitis.
3. Cystic fibrosis.
4. Inflammation.

4. SUPPLEMENTAL DISEASE CAUSED BY DIABETES MELLITUS

- **How is chronic injury (wound) connected with diabetes mellitus?**

Nevertheless, despite people with diabetes, wounds swings to restore spare leisurely or do not restore effectively because the body cannot manufacture or make use of insulin. This hormone converts glucose (Sugar) into energy, but while your body grapples to metabolize it, sugar levels arise, striking your wound healing capability.

Constituent striking Diabetic wound restoring:

- **Elevated blood (sugar)**
 1. It intensifies inflammation in the cells.
 2. Impede oxygen and nutrients from energizing cells.
 3. Intercept the normal functioning of the immune system.

Un-curved levels of glucose harm nerves, anesthetic sensation. This points out that the people with diabetes who aid a wound may not perceive themselves having an injury and so, unrecognized to get treatment and the wound gets aggravated.

Dental caries in relation with diabetes Mellitus:

The surmise in the wake of this lofty regularity is that Salivary glucose level among the diabetic patients is over the top that esteem the propagation of microorganisms and embellish their cumulative on tooth surface. These facts also inferior the implementing tendency of neutrophils that speed up the microbial accumulation and maximize the probability of getting tooth decay among diabetes.

Dizziness and depression in relation with diabetes mellitus:

Diabetes may cause low or high blood sugar, it might make people perceive dizziness, increased blood sugar can also steer to dehydration, the body detaches excess glucose from the blood by way of urine, taking extra water with it. Can be confront fluctuating mood when your body's glucose levels are extreme or deficient. Stress, depression and anxiety might appear.

Arthritis in relation with diabetes mellitus:

The lofty intracellular glucose concentration in diabetes assist origination of (AGE)-(Advanced glycation end

products); (AGE) amalgam then interconnect with receptor of (AGE-RAGE)-(Receptor for advanced glycation end products, to engender a torrent of event that assist release of pro-inflammatory factors and active-transcription factors, which genesis the inflammation and oxidative stress intra-cellularly and might assist cartilage degradation, which genesis joint inflammation or joint stiffness which makes suitable condition for various types of arthritis to Origin.

Itching of skin in relation with diabetes mellitus:

The genesis of diabetes mellitus associated with itching of skin is (Diabetic polyneuropathy). The are impediments of diabetes that develop when high blood glucose level genesis damage to nerve fibres, specifically those in foot and hand, prior to nerve damage genesis for the people with diabetes, elevated level of cytokines disseminate the body. These inflammatory substances prior to itching, persistent itching might write down that person with diabetes.

Palpitation in relation with diabetes mellitus:

Mislaid meals can usher in low-blood sugar; it can tackle oscillating mood which genesis stress, depression and

anxiety barring the everlasting stress genesis heart Palpitation and panic attacks.

Tinea corporis in relation with diabetes mellitus:

Diabetes Mellitus can genesis an enfeeble immune system, individuals with this situation can thrive tinea corporis and other skin conditions. Hence, the body might be too stressed to bawl opposed to latent threats.

Pruritus in relation with diabetes mellitus:

Diabetes Mellitus furthermore genesis the small blood vessels. The can genesis pruritus (or) Itchy skin, which genesis irritating sensation that creates you to scratch your skin. If it is ingrained for more than (6-weeks) it is termed as chronic itching, and it has higher probability of getting skin cancer.

Conjunctivitis in relation with diabetes mellitus:

Pink eye inflammation is hypothetically genesis due to bacterial (or) viral agency; individuals with diabetes are increasingly susceptible to Conjunctivitis. A crucial cause for this is the presence of surplus glucose in the mucus membrane, skin, and tears. This helps the growth of bacteria. Diabetes genesis flawed lacrimal gland (tear-

producing gland) and obstacle of genesis including twisting of blood vessels (Tortuosity) and mislaying of capillaries.

Insomnia and Fatigue in relation with diabetes mellitus:

Diabetes individuals own sleep complications due to wobbly blood-sugar level and go along with diabetes associated symptoms, High and Low blood-sugar level overnight can usher in Insomnia and fatigue.

- **Added symptoms of diabetes hold on to keep you awake at night:**
 1. Persistent urination at night
 2. Lacking food and incorrect balance of diabetes mellitus.

Foot ulcer in relation with diabetes mellitus:

On condition that peripheral neuropathy causes numbness the individual cannot feel irritation in the foot. The skin can seize up, contours an ulcer and the ulcer can get contaminated. Blood circulation can be indigent, paramount to delayed curing. If it is left untreated, a normal sore can become infected as an extreme wound.

Renal colic in relation with diabetes mellitus:

Insulin resistance in distinction to diabetes, when personally cells end riposte to insulin, it elevates the levels of calcium in your urine. When minerals like calcium and uric acid hold together with your urine and generate hard crystals it confers you a type of pain, when kidney stones choke your urinary tract.

Obesity in relation with diabetes mellitus:

Amongst obese people, the percentage of (NEFA)-(Non-esterified fatty acids), glycerol, hormones, cytokines, pro-inflammatory substance, and other substances specifically intricated in enlargement of insulin resistance are enlarged. Insulin resistance with-defacement, of (Beta-cell) function usher to the blooming of diabetes.

Coronary artery disease in relation with diabetes mellitus:

Since your body is incapable of using all its sugar efficiently, to a greater extent it clings to your red blood cells (RBC) and it outlines plaque, which builds up in the walls of the arteries which supplies blood to your heart. Which builds the blood flow constrained and it generates many heart diseases.

5.PIE-CHART REPRESENTATION

- MOST NUMBER OF CASES REPORTED ACCORDING TO OUR DATA COLLECTION:



- SUPPLEMENTAL DISEASE PERCENTAGE:



6. CONCLUSION

The at most intention of this "hypothesis" was to identify persistently reporting disease patterns, in conjunction with discovering the (multi-faceted) disease. Which, genesis the mass sequel amongst the individuals in addition to its correspondence with Supplemental diseases and its symptoms, causes and further health care conditions.

In accordance, to our "data analysis" the "Diabetes Mellitus" is at most (multi-faceted) disease. Which reported persistently amongst the individuals and its genesis "supplemental disease" through its sequential effect.

Furthermore, it causes ruinous effect through sway of blood glucose level by way of, lofty glucose level its genesis **Hyperglycemia** in addition with truncated glucose level its genesis **Hypoglycemia**. So, as proved, we are incapable of defending this situation. Nevertheless, we can personally adapt to the circumstances, in character with "**Chameleons**".

If you have determined this book gaze to last even as utilitarian and functional as in the way it was premeditated, if you felt you would like to proffer suggestions or reviews you are at most welcomed to share your thoughts in the "**amazon**" comments section. Also, this book is available in the Cambridge university

libraries digital collections also mentioned as (Library - Guide) at the sector of “Free individual titles” under the section of “Science, Technology, and Medicine.”

Mantra of triumph: "Greatness"